



STATE OF WASHINGTON

STATE BUILDING CODE COUNCIL

Washington State Energy Code Development Standard Energy Code Proposal Form

May 2018

Log No. _____

Code being amended: ☒ Commercial Provisions ☐ Residential Provisions

Code Section # Table C407.3(1) _____

Brief Description:

This proposal updates the emissions factors in Table C407.3(1) using projected factors for electricity and natural gas.

Proposed code change text: (Copy the existing text from the Integrated Draft, linked above, and then use underline for new text and ~~strikeout~~ for text to be deleted.)

TABLE C407.3(1)
CARBON EMISSIONS FACTORS

Type	CO ₂ e (lb/unit)	Unit
Electricity	0.70 <u>0.80</u>	kWh
Natural Gas	41.7 <u>10.53</u>	Therm
Oil	19.2	Gallon
Propane	10.5	Gallon
Other ^a	195.00	mmBtu
On-site renewable energy	0.00	

- a. District energy systems may use alternative emission factors supported by calculations approved by the *code official*.

Purpose of code change:

The purpose is to provide more accurate emissions factors to inform users when evaluating electricity and natural gas as affordable and efficient choices for energy service. The proposed electricity emissions factor assumes the marginal generation is a 50% efficient combined cycle combustion turbine. The proposed emissions factor for natural gas is based on a mix that includes 10% renewable natural gas in the system in 2030.

Your amendment must meet one of the following criteria. Select at least one:

- ☐ Addresses a critical life/safety need. ☐ Consistency with state or federal regulations.
- ☒ The amendment clarifies the intent or application of the code. ☐ Addresses a unique character of the state.
- ☒ Addresses a specific state policy or statute.
(Note that energy conservation is a state policy) ☐ Corrects errors and omissions.

Check the building types that would be impacted by your code change:

- ☐ Single family/duplex/townhome ☐ Multi-family 1 – 3 stories ☒ Multi-family 4 + stories

☒ Commercial / Retail

☒ Institutional

☒ Industrial

Your name Dan Kirschner

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Your organization NWGA

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Other contact name Chris Burroughs, Puget Sound Energy

Instructions: Send this form as an email attachment, along with any other documentation available, to:
sbcc@des.wa.gov. For further information, call the State Building Code Council at 360-407-9278.

Economic Impact Data Sheet

Briefly summarize your proposal's primary economic impacts and benefits to building owners, tenants and businesses.

This proposal only updates the emissions factors used in certain sections of the code. It does not result in any economic impacts.

Provide your best estimate of the construction cost (or cost savings) of your code change proposal? (See OFM Life Cycle Cost [Analysis tool](#) and [Instructions](#); use these [Inputs](#). **Webinars on the tool can be found [Here](#) and [Here](#)**)

\$[Click here to enter text.](#)/square foot (For residential projects, also provide \$[Click here to enter text.](#)/ dwelling unit)

Show calculations here, and list sources for costs/savings, or attach backup data pages

NA.

Provide your best estimate of the annual energy savings (or additional energy use) for your code change proposal?

[Click here to enter text.](#)KWH/ square foot (or) [Click here to enter text.](#)KBTU/ square foot

(For residential projects, also provide [Click here to enter text.](#)KWH/KBTU / dwelling unit)

Show calculations here, and list sources for energy savings estimates, or attach backup data pages

NA

List any code enforcement time for additional plan review or inspections that your proposal will require, in hours per permit application:

All questions must be answered to be considered complete. Incomplete proposals will not be accepted.